



Compound  
**19312**  
SILICONE  
30 DUROMETER  
GRAY COLOR

**PRODUCT DATA SHEET**

Compound 19312 is a 30 durometer gray colored general purpose Silicone elastomer.

This compound has the following physical properties:

**Original Properties**

Modulus @ 100% Elongation	56 psi	0.4 MPa
Tensile Strength	956 psi	6.6 MPa
Ultimate Elongation	840 %	
Hardness, Shore A	32 Durometer	
Specific Gravity	1.09 grams/cc	
Brittleness Temperature	< -103 °F	< -75 °C
Tear Resistance, Die B	57 ppi	10.0 kN/m

**Compression Set**

Solid: 22 hrs @ 347°F (175°C)	34.3 %
Plied: 22 hrs @ 347°F (175°C)	38.8 %

**HEAT AGED: 70 hrs @ 482°F (250°C)**

Change - Tensile Strength	- 62.2 %
Change - Elongation	- 94.0 %
Change - Hardness, Shore A	+ 35

**HEAT AGED: 70 hrs @ 392°F (200°C)**

Change - Tensile Strength	- 5.9 %
Change - Elongation	- 10.7 %
Change - Hardness, Shore A	+ 1

**HEAT AGED: 70 hrs @ 437°F (225°C)**

Change - Tensile Strength	- 38.7 %
Change - Elongation	- 22.6 %
Change - Hardness, Shore A	+ 1

**DISTILLED WATER AGED: 70 hrs @ 212°F (100°C)**

Change - Tensile Strength	+ 17.9 %
Change - Elongation	+ 7.1 %
Change - Hardness, Shore A	+ 3
Change - Volume	+ 0.2 %

**ASTM OIL #1: 70 hrs @ 302°F (150°C)**

Change - Tensile Strength	+ 2.8 %
Change - Elongation	- 4.8 %
Change - Hardness, Shore A	- 5
Change - Volume	+ 3.1 %